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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/032,941	10/31/2001	Harry Hedler	13292-007001 / 2001P15322		
759	09/23/2002				
FRANK R. OCCHIUTI			EXAMINER		
Fish L& Richardson P.C. 225 Franklin Street			CLARK, SHEILA V		
Boston, MA 02110-2804			ART UNIT	PAPER NUMBER	
			2815		
			DATE MAILED: 09/23/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No. 10/032,941 Applicant(s)

Harry et al

Examiner

Sheila V.Clark

Art Unit 2815

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Ш		111   282
ш	861	
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Ш	EU41	

Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on  Zb) This action is non-final.	
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Status  1) Responsive to communication(s) filed on  2a) This action is FINAL.  2b) This action is non-final.	
1) ☐ Responsive to communication(s) filed on  2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.	
Disposition of Claims	
4) Claim(s) 1-23 is/are pending in the application.	
4a) Of the above, claim(s) is/are withdrawn from consideration	า.
5) Claim(s) is/are allowed.	
6) 💢 Claim(s) <u>1-23</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claims are subject to restriction and/or election requirement	ıt.
Application Papers	
9) The specification is objected to by the Examiner.	
10) ☐ The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Exami	iner.
If approved, corrected drawings are required in reply to this Office action.	
12) The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120	
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a) □ All b) □ Some* c) □ None of:	
1. Certified copies of the priority documents have been received.	
2. Certified copies of the priority documents have been received in Application No.	
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	
*See the attached detailed Office action for a list of the certified copies not received.	
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).	
a) The translation of the foreign language provisional application has been received.	
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	
Attachment(s)  1) Notice of References Cited (PTO-892)  4} Interview Summary (PTO-413) Paper No(s)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)	
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6}  Other:	

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States. Claims 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 17, 18, 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Panchou et al.

Panchou et al shows a semiconductor substrate 11 and a compliant interconnect element 30 disposed on a first surface of the substrate. Said interconnect defining a chamber in the form of a via between the first surface and a surface of the interconnect. Said compliant layer is formed of polymer. A conducting pad 12 is shown formed on the substrate and a conducting layer 14 is shown disposed in the compliant layer in contact with the conducting layer. A printed circuit board having contact 38 thereon is further shown.

The steps of providing are deemed to be taught.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 10, 11, 14, 15, 16, 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Panchou et al...

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Though Panchou et al fail to distinctly teach the features recited in these claims, the

features recited are deemed to be well known features commonly formed in semiconductor device

structure and would have therefore deemed to be well known to one having ordinary skill in this

art.

Farnworth et al, Akram et al (6002180, 5956605), Kimura and Abbott et al are all cited

to show compliant layers having chambers.

In order for the case to be further considered for allowance it is suggested that the

applicant recite a more detailed description of the compliant interconnect. The current broad

recitation compares to many types of interconnects well know in this art.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner S.V. Clark whose telephone number is (703) 308-4924.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Eddie Lee, can be reached on (703) 308-1690. The fax phone number for the organization where

this application or proceeding is assigned is (703) 308-7722 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

September 19, 2001

SHEILA V. CLAHR

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